

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	FY2018	FY2017	FY2016	FY2015	FY2014	FY2013	FY2012
Membership							
Active Members	921	902	892	843	858	845	823
Service Retirees	862	847	844	816	776	748	733
Disabilitants	59	57	53	57	54	50	48
Survivors	150	148	151	154	155	185	182
Deferred Retirees	56	59	55	52	44	41	40
Nonvested Former Members	22	28	20	17	17	18	15
Total Membership	2,070	2,041	2,015	1,939	1,904	1,887	1,841
Funded Status							
Accrued Liability	\$930,408,000	\$880,846,000	\$833,886,000	\$833,033,000	\$800,421,000	\$741,850,000	\$760,955,000
Current Assets	<u>\$715,964,000</u>	<u>\$685,077,000</u>	<u>\$654,842,000</u>	<u>\$639,863,000</u>	<u>\$597,870,000</u>	<u>\$552,319,000</u>	<u>\$554,244,000</u>
Unfunded Accrued Liability	\$214,444,000	\$195,769,000	\$179,044,000	\$193,170,000	\$202,551,000	\$189,531,000	\$206,711,000
Funding Ratio	76.95%	77.77%	78.53%	76.81%	74.69%	74.45%	72.84%
Financing Requirements							
Covered Payroll	\$77,874,000	\$76,532,000	\$73,134,000	\$69,857,000	\$67,386,000	\$64,136,000	\$66,592,000
Benefits Payable	\$59,653,000	\$58,560,000	\$57,695,000	\$55,465,000	\$53,697,000	\$52,057,000	\$50,007,000
Normal Cost	24.88% \$19,375,000	24.08% \$18,429,000	22.64% \$16,557,000	23.41% \$16,353,000	22.74% \$15,324,000	20.78% \$13,327,000	21.63% \$14,404,000
Administrative Expenses	0.24% \$187,000	0.28% \$214,000	0.31% \$227,000	0.25% \$175,000	0.23% \$155,000	0.29% \$186,000	0.24% \$160,000
Amortiz. of Unfunded Liab.^	<u>16.12%</u> <u>\$12,553,000</u>	<u>18.28%</u> <u>\$13,990,000</u>	<u>17.50%</u> <u>\$12,798,000</u>	<u>19.25%</u> <u>\$13,447,000</u>	<u>20.59%</u> <u>\$13,875,000</u>	<u>20.17%</u> <u>\$12,936,000</u>	<u>20.65%</u> <u>\$13,751,000</u>
Total Requirements	41.24% \$32,115,000	42.64% \$32,633,000	40.45% \$29,582,000	42.91% \$29,975,000	43.56% \$29,354,000	41.24% \$26,449,000	42.52% \$28,315,000
Employee Contributions	14.90% \$11,603,000	14.40% \$11,021,000	14.40% \$10,531,000	13.40% \$9,361,000	13.40% \$9,030,000	12.40% \$7,953,000	12.40% \$8,257,000
Employer Contributions	22.35% \$17,405,000	21.60% \$16,531,000	21.60% \$15,797,000	20.10% \$14,041,000	20.10% \$13,545,000	18.60% \$11,929,000	18.60% \$12,386,000
Employer Add'l Cont.	1.75% \$1,363,000	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	1.28% \$1,000,000	1.31% \$1,000,000	1.37% \$1,000,000	1.43% \$1,000,000	1.48% \$1,000,000	1.56% \$1,000,000	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00%</u> <u>\$0</u>						
Total Contributions	40.28% \$31,371,000	37.31% \$28,552,000	37.37% \$27,328,000	34.93% \$24,402,000	34.98% \$23,575,000	32.56% \$20,882,000	31.00% \$20,643,000
Total Requirements	41.24% \$32,115,000	42.64% \$32,633,000	40.45% \$29,582,000	42.91% \$29,975,000	43.56% \$29,354,000	41.24% \$26,449,000	42.52% \$28,315,000
Total Contributions	<u>40.28%</u> <u>\$31,371,000</u>	<u>37.31%</u> <u>\$28,552,000</u>	<u>37.37%</u> <u>\$27,328,000</u>	<u>34.93%</u> <u>\$24,402,000</u>	<u>34.98%</u> <u>\$23,575,000</u>	<u>32.56%</u> <u>\$20,882,000</u>	<u>31.00%</u> <u>\$20,643,000</u>
Sufficiency/(Deficiency)	(0.96%) (\$744,000)	(5.33%) (\$4,081,000)	(3.08%) (\$2,254,000)	(7.98%) (\$5,573,000)	(8.58%) (\$5,779,000)	(8.68%) (\$5,567,000)	(11.52%) (\$7,672,000)
Amortization Target Date	2048	2039	2038	2038	2038	2037	2037
Actuary	GRS						

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

The information set forth in this report is a compilation of data taken from actuarial valuation reports prepared by each plan's actuary. The LCPR or its staff do not warrant or guarantee its accuracy, reliability or completeness. LCPR staff compiles this information to provide a single source for similar data on the plans, for the sake of convenience and ease of comparison, for use by Minnesota legislators and, secondarily, the public. This information should not be relied on for any "official" purpose. Please refer to the plans' actuarial valuation reports, available on the LCPR website at www.lcpr.leg.mn, for the most accurate, complete and detailed information.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	FY2011	FY2010	FY2009	FY2008	FY2007	FY2006	2005
Membership							
Active Members	862	848	876	840	844	851	831
Service Retirees	700	684	673	660	645	626	612
Disabilitants	48	48	44	42	41	41	35
Survivors	184	192	191	194	190	179	178
Deferred Retirees	38	39	41	35	32	33	34
Nonvested Former Members	15	14	11	7	8	9	14
Total Membership	1,847	1,825	1,836	1,778	1,760	1,739	1,704
Funded Status							
Accrued Liability	\$700,898,000	\$683,360,000	\$725,334,000	\$693,686,000	\$673,443,671	\$641,479,078	\$566,763,689
Current Assets	<u>\$563,046,000</u>	<u>\$567,211,000</u>	<u>\$584,501,000</u>	<u>\$595,082,000</u>	* <u>\$617,900,887</u>	<u>\$618,990,349</u>	<u>\$601,220,181</u>
Unfunded Accrued Liability	\$137,852,000	\$116,149,000	\$140,833,000	\$98,604,000	\$55,542,784	\$22,488,729	(\$34,456,492)
Funding Ratio	80.33%	83.00%	80.58%	85.79%	91.75%	96.49%	106.08%
Financing Requirements							
Covered Payroll	\$66,035,000	\$67,187,000	\$67,421,000	\$63,771,000	\$61,497,551	\$57,765,450	\$55,142,064
Benefits Payable	\$47,844,000	\$46,119,000	\$44,480,000	\$42,804,000	\$40,581,617	\$38,767,492	\$36,956,287
Normal Cost	22.91% \$15,127,000	22.98% \$15,437,000	25.37% \$17,103,000	25.15% \$16,041,000	24.75% \$15,219,351	24.41% \$14,098,467	23.03% \$12,698,808
Administrative Expenses	0.14% \$92,000	0.18% \$123,000	0.16% \$108,000	0.18% \$115,000	0.19% \$116,845	0.18% \$103,978	0.17% \$93,742
Amortiz. of Unfunded Liab.^	<u>13.20%</u> <u>\$8,717,000</u>	<u>10.68%</u> <u>\$7,176,000</u>	<u>12.63%</u> <u>\$8,515,000</u>	<u>9.15%</u> <u>\$5,838,000</u>	<u>4.96%</u> <u>\$3,050,279</u>	<u>2.10%</u> <u>\$1,213,075</u>	<u>(3.36%)</u> <u>(\$1,852,773)</u>
Total Requirements	36.25% \$23,936,000	33.84% \$22,736,000	38.16% \$25,726,000	34.49% \$21,994,000	29.90% \$18,386,475	26.69% \$15,415,520	19.84% \$10,939,777
Employee Contributions	12.40% \$8,188,000	10.40% \$6,988,000	10.40% \$7,012,000	9.80% \$6,250,000	9.10% \$5,596,277	8.40% \$4,852,298	8.40% \$4,631,933
Employer Contributions	18.60% \$12,283,000	15.60% \$10,481,000	15.60% \$10,518,000	14.60% \$9,310,000	13.60% \$8,363,667	12.60% \$7,278,447	12.60% \$6,947,900
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00%</u> <u>\$0</u>						
Total Contributions	31.00% \$20,471,000	26.00% \$17,469,000	26.00% \$17,530,000	24.40% \$15,560,000	22.70% \$13,959,944	21.00% \$12,130,745	21.00% \$11,579,833
Total Requirements	36.25% \$23,936,000	33.84% \$22,736,000	38.16% \$25,726,000	34.49% \$21,994,000	29.90% \$18,386,475	26.69% \$15,415,520	19.84% \$10,939,777
Total Contributions	<u>31.00%</u> <u>\$20,471,000</u>	<u>26.00%</u> <u>\$17,469,000</u>	<u>26.00%</u> <u>\$17,530,000</u>	<u>24.40%</u> <u>\$15,560,000</u>	<u>22.70%</u> <u>\$13,959,944</u>	<u>21.00%</u> <u>\$12,130,745</u>	<u>21.00%</u> <u>\$11,579,833</u>
Sufficiency/(Deficiency)	(5.25%) (\$3,465,000)	(7.84%) (\$5,267,000)	(12.16%) (\$8,196,000)	(10.09%) (\$6,434,000)	(7.20%) (\$4,426,531)	(5.69%) (\$3,284,775)	1.16% \$640,056
Amortization Target Date	2036	2036	2036	2036	2036	2036	2035
Actuary	Mercer	Mercer	Mercer	Mercer	Segal	Segal	Segal

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

* Reflects 2007 Asset Valuation Method change

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	2004	2003	2002	2001	2000	1999	1998							
Membership														
Active Members	834	805	810	823	830	825	806							
Service Retirees	607	592	577	556	531	503	462							
Disabilitants	34	31	29	25	22	23	21							
Survivors	163	162	156	164	457	146	137							
Deferred Retirees	27	20	27	25	24	23	21							
Nonvested Former Members	12	13	11	10	10	10	7							
Total Membership	1,677	1,623	1,610	1,603	1,874	1,530	1,454							
Funded Status														
Accrued Liability	\$545,243,508	\$538,980,000	\$510,344,000	\$489,483,000	\$458,384,000	\$406,215,000	\$371,369,000							
Current Assets	<u>\$594,785,274</u>	<u>\$591,521,000</u>	<u>\$591,383,000</u>	<u>\$572,815,000</u>	<u>\$528,573,000</u>	<u>\$472,687,000</u>	<u>\$430,011,000</u>							
Unfunded Accrued Liability	(\$49,541,766)	(\$52,541,000)	(\$81,039,000)	(\$83,332,000)	(\$70,189,000)	(\$66,472,000)	(\$58,642,000)							
Funding Ratio	109.09%	109.75%	115.88%	117.02%	115.31%	116.36%	115.79%							
Financing Requirements														
Covered Payroll	\$53,119,128	\$56,569,000	\$51,473,000	\$51,574,000	\$51,980,000	\$47,034,000	\$45,217,000							
Benefits Payable	\$35,501,294	\$34,316,000	\$33,031,000	\$29,935,000	\$25,789,000	\$22,226,000	\$18,353,000							
Normal Cost	23.00%	\$12,212,574	22.62%	\$11,649,000	22.53%	\$11,620,000	22.55%	\$11,725,000	22.62%	\$10,636,000	22.50%	\$10,170,000		
Administrative Expenses	0.17%	\$90,303	0.18%	\$102,000	0.20%	\$103,000	0.17%	\$88,000	0.20%	\$104,000	0.16%	\$75,000	0.15%	\$68,000
Amortiz. of Unfunded Liab.^	(5.02%)	(\$2,666,580)	(5.00%)	(\$2,828,000)	(8.48%)	(\$4,365,000)	(8.70%)	(\$4,487,000)	(7.27%)	(\$3,779,000)	(9.57%)	(\$4,501,000)	(8.51%)	(\$3,848,000)
Total Requirements	18.15%	\$9,636,297	17.80%	\$10,071,000	14.34%	\$7,387,000	14.00%	\$7,221,000	15.48%	\$8,050,000	13.21%	\$6,210,000	14.14%	\$6,390,000
Employee Contributions	8.40%	\$4,462,007	8.40%	\$4,752,000	8.40%	\$4,324,000	8.40%	\$4,332,000	8.40%	\$4,366,000	8.40%	\$3,951,000	8.40%	\$3,798,000
Employer Contributions	12.60%	\$6,693,010	12.60%	\$7,128,000	12.60%	\$6,486,000	12.60%	\$6,498,000	12.60%	\$6,550,000	12.60%	\$5,926,000	12.60%	\$5,697,000
Employer Add'l Cont.	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Direct State Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Other Govt. Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Administrative Assessment	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Total Contributions	21.00%	\$11,155,017	21.00%	\$11,880,000	21.00%	\$10,810,000	21.00%	\$10,830,000	21.00%	\$10,916,000	21.00%	\$9,877,000	21.00%	\$9,495,000
Total Requirements	18.15%	\$9,636,297	17.80%	\$10,071,000	14.34%	\$7,387,000	14.00%	\$7,221,000	15.48%	\$8,050,000	13.21%	\$6,210,000	14.14%	\$6,390,000
Total Contributions	<u>21.00%</u>	<u>\$11,155,017</u>	<u>21.00%</u>	<u>\$11,880,000</u>	<u>21.00%</u>	<u>\$10,810,000</u>	<u>21.00%</u>	<u>\$10,830,000</u>	<u>21.00%</u>	<u>\$10,916,000</u>	<u>21.00%</u>	<u>\$9,877,000</u>	<u>21.00%</u>	<u>\$9,495,000</u>
Sufficiency/(Deficiency)	2.85%	\$1,518,720	3.20%	\$1,809,000	6.66%	\$3,423,000	7.00%	\$3,609,000	5.52%	\$2,866,000	7.79%	\$3,667,000	6.86%	\$3,105,000
Amortization Target Date	2034	2033	2032	2031	2030	2020	2020							
Actuary	Segal	Milliman USA	Milliman USA	Milliman USA	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson							

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1997	1996	1995	1994	1993	1992	1991
Membership							
Active Members	795	777	803	788	781	795	809
Service Retirees	422	416	401	391	377	373	363
Disabilitants	20	18	18	18	15	15	15
Survivors	128	126	121	120	119	109	109
Deferred Retirees	21	22	19	21	18	19	15
Nonvested Former Members	<u>7</u>	<u>6</u>	<u>5</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>0</u>
Total Membership	1,393	1,365	1,367	1,341	1,313	1,314	1,311
Funded Status							
Accrued Liability	\$332,427,000	\$303,941,000	\$283,078,000	\$275,377,000	\$258,202,000	\$233,656,000	\$224,033,000
Current Assets	<u>\$375,650,000</u>	<u>\$323,868,000</u>	<u>\$284,918,000</u>	<u>\$262,570,000</u>	<u>\$244,352,000</u>	<u>\$222,314,000</u>	<u>\$200,068,000</u>
Unfunded Accrued Liability	(\$43,223,000)	(\$19,927,000)	(\$1,840,000)	\$12,807,000	\$13,850,000	\$11,342,000	\$23,965,000
Funding Ratio	113.00%	106.56%	100.65%	95.35%	94.60%	95.15%	89.30%
Financing Requirements							
Covered Payroll	\$43,084,000	\$40,399,000	\$39,838,000	\$41,462,000	\$40,654,000	\$37,113,000	\$37,777,000
Benefits Payable	\$14,642,000	\$13,279,000	\$12,092,000	\$11,272,000	\$10,253,000	\$9,603,000	\$8,720,000
Normal Cost	21.91% \$9,443,000	21.19% \$8,560,548	21.21% \$8,449,640	20.08% \$8,325,570	20.12% \$8,179,585	20.19% \$7,493,115	19.02% \$7,185,185
Administrative Expenses	0.15% \$65,000	0.14% \$56,559	0.13% \$51,789	0.16% \$66,339	0.16% \$65,046	0.63% \$233,812	0.63% \$237,995
Amortiz. of Unfunded Liab.^	<u>(6.39%) (\$2,753,000)</u>	<u>0.00% \$0</u>	<u>0.00% \$0</u>	<u>1.55% \$642,661</u>	<u>1.66% \$674,856</u>	<u>1.45% \$538,139</u>	<u>2.93% \$1,106,866</u>
Total Requirements	15.67% \$6,755,000	21.33% \$8,617,107	21.34% \$8,501,429	21.79% \$9,034,570	21.94% \$8,919,488	22.27% \$8,265,065	22.58% \$8,530,047
Employee Contributions	8.40% \$3,619,000	8.92% \$3,603,591	8.92% \$3,553,550	8.50% \$3,524,270	8.50% \$3,455,590	8.50% \$3,154,605	8.50% \$3,211,045
Employer Contributions	12.60% \$5,429,000	14.88% \$6,011,371	14.88% \$5,927,894	14.88% \$6,169,546	14.88% \$6,049,315	14.88% \$5,522,414	14.88% \$5,621,218
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00% \$0</u>						
Total Contributions	21.00% \$9,048,000	23.80% \$9,614,962	23.80% \$9,481,444	23.38% \$9,693,816	23.38% \$9,504,905	23.38% \$8,677,019	23.38% \$8,832,263
Total Requirements	15.67% \$6,755,000	21.33% \$8,617,107	21.34% \$8,501,429	21.79% \$9,034,570	21.94% \$8,919,488	22.27% \$8,265,065	22.58% \$8,530,047
Total Contributions	<u>21.00%</u> <u>\$9,048,000</u>	<u>23.80%</u> <u>\$9,614,962</u>	<u>23.80%</u> <u>\$9,481,444</u>	<u>23.38%</u> <u>\$9,693,816</u>	<u>23.38%</u> <u>\$9,504,905</u>	<u>23.38%</u> <u>\$8,677,019</u>	<u>23.38%</u> <u>\$8,832,263</u>
Sufficiency/(Deficiency)	5.33% \$2,293,000	2.47% \$997,855	2.46% \$980,015	1.59% \$659,246	1.44% \$585,418	1.11% \$411,954	0.80% \$302,216
Amortization Target Date	2020	2020	2020	2020	2020	2020	2020
Actuary	Milliman & Robertson						

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1990	1989	1988	1987	1986	1985	1984							
Membership														
Active Members	788	765	740	771	769	764	741							
Service Retirees	346	340	339	318	306	285	397							
Disabilitants	14	14	13	13	13	13	0							
Survivors	105	101	103	99	106	109	0							
Deferred Retirees	23	19	16	16	18	21	21							
Nonvested Former Members	4	7	8	8	9	9	10							
Total Membership	1,280	1,246	1,219	1,225	1,221	1,201	1,169							
Funded Status														
Accrued Liability	\$207,343,000	\$194,434,000	\$175,062,000	\$160,628,000	\$149,064,000	\$134,508,000	\$119,682,218							
Current Assets	<u>\$185,699,000</u>	<u>\$167,271,000</u>	<u>\$148,355,000</u>	<u>\$136,397,000</u>	<u>\$118,174,000</u>	<u>\$100,486,000</u>	<u>\$86,784,592</u>							
Unfunded Accrued Liability	\$21,644,000	\$27,163,000	\$26,707,000	\$24,231,000	\$30,890,000	\$34,022,000	\$32,897,626							
Funding Ratio	89.56%	86.03%	84.74%	84.91%	79.28%	74.71%	72.51%							
Financing Requirements														
Covered Payroll	\$34,423,000	\$32,591,000	\$29,267,000	\$28,583,000	\$27,474,000	\$25,846,000	\$23,016,272							
Benefits Payable	\$7,846,000	\$7,187,000	\$6,263,000	\$5,431,000	\$4,753,000	\$3,967,000	\$3,536,079							
Normal Cost	18.53%	\$6,378,582	17.61%	\$5,739,275	18.08%	\$5,291,474	18.10%	\$5,173,523	18.47%	\$5,074,448	18.66%	\$4,822,864	18.68%	\$4,299,440
Administrative Expenses	0.79%	\$271,942	0.57%	\$185,769	0.60%	\$175,602	0.66%	\$188,648	0.61%	\$167,591	0.58%	\$149,907	0.27%	\$62,144
Amortiz. of Unfunded Liab.^	<u>2.83%</u>	<u>\$974,171</u>	<u>3.66%</u>	<u>\$1,192,831</u>	<u>5.19%</u>	<u>\$1,518,957</u>	<u>4.63%</u>	<u>\$1,323,393</u>	<u>5.92%</u>	<u>\$1,626,461</u>	<u>6.68%</u>	<u>\$1,726,513</u>	<u>7.00%</u>	<u>\$1,611,139</u>
Total Requirements	22.15%	\$7,624,695	21.84%	\$7,117,874	23.87%	\$6,986,033	23.39%	\$6,685,564	25.00%	\$6,868,500	25.92%	\$6,699,283	25.95%	\$5,972,723
Employee Contributions	8.50%	\$2,925,955	8.50%	\$2,770,235	8.50%	\$2,487,695	8.50%	\$2,429,555	8.50%	\$2,335,290	8.50%	\$2,196,910	8.50%	\$1,956,383
Employer Contributions	14.88%	\$5,122,142	18.90%	\$6,159,699	18.90%	\$5,531,463	18.90%	\$5,402,187	18.90%	\$5,192,586	18.90%	\$4,884,894	18.90%	\$4,350,075
Employer Add'l Cont.	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Direct State Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Other Govt. Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Administrative Assessment	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>
Total Contributions	23.38%	\$8,048,097	27.40%	\$8,929,934	27.40%	\$8,019,158	27.40%	\$7,831,742	27.40%	\$7,527,876	27.40%	\$7,081,804	27.40%	\$6,306,459
Total Requirements	22.15%	\$7,624,695	21.84%	\$7,117,874	23.87%	\$6,986,033	23.39%	\$6,685,564	25.00%	\$6,868,500	25.92%	\$6,699,283	25.95%	\$5,972,723
Total Contributions	<u>23.38%</u>	<u>\$8,048,097</u>	<u>27.40%</u>	<u>\$8,929,934</u>	<u>27.40%</u>	<u>\$8,019,158</u>	<u>27.40%</u>	<u>\$7,831,742</u>	<u>27.40%</u>	<u>\$7,527,876</u>	<u>27.40%</u>	<u>\$7,081,804</u>	<u>27.40%</u>	<u>\$6,306,459</u>
Sufficiency/(Deficiency)	1.23%	\$423,403	5.56%	\$1,812,060	3.53%	\$1,033,125	4.01%	\$1,146,178	2.40%	\$659,376	1.48%	\$382,521	1.45%	\$333,736
Amortization Target Date	2020	2020	2009	2009	2009	2009	2009							
Actuary	Wyatt	Wyatt	Wyatt	Wyatt	Wyatt	Wyatt	Touche Ross							

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1983	1982	1981	1980	1979	1978	1977
Membership							
Active Members	774	763	793	782	770	751	--
Service Retirees	359	222	195	179	178	165	--
Disabilitants	0	5	10	9	9	8	--
Survivors	0	112	107	114	117	118	--
Deferred Retirees	22	28	25	23	17	19	--
Nonvested Former Members	<u>10</u>	<u>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	--
Total Membership	1,165	1,140	1,130	1,107	1,091	1,061	--
Funded Status							
Accrued Liability	\$132,174,955	\$111,455,693	\$100,517,909	\$85,830,394	\$67,797,858	\$59,643,395	\$54,026,436
Current Assets	<u>\$78,774,772</u>	<u>\$68,183,407</u>	<u>\$58,720,161</u>	<u>\$49,620,012</u>	<u>\$41,712,515</u>	<u>\$37,265,557</u>	<u>\$32,177,068</u>
Unfunded Accrued Liability	\$53,400,183	\$43,272,286	\$41,797,748	\$36,210,382	\$26,085,343	\$22,377,838	\$21,849,368
Funding Ratio	59.60%	61.18%	58.42%	57.81%	61.53%	62.48%	59.56%
Financing Requirements							
Covered Payroll	\$21,562,464	\$19,600,976	\$19,967,408	\$18,003,587	\$16,429,135	\$13,771,848	\$12,974,808
Benefits Payable	\$2,777,224	\$2,242,146	\$1,778,088	\$1,519,060	\$1,454,944	\$1,290,000	\$1,205,000
Normal Cost	17.65% \$3,805,775	16.96% \$3,324,326	15.77% \$3,148,860	15.50% \$2,790,556	14.60% \$2,398,654	14.19% \$1,954,225	14.45% \$1,874,860
Administrative Expenses	0.18% \$38,812	0.18% \$35,282	0.18% \$35,941	0.18% \$32,406	0.23% \$37,787	0.25% \$34,430	0.27% \$35,032
Amortiz. of Unfunded Liab.^	<u>16.81%</u> <u>\$3,624,650</u>	<u>14.71%</u> <u>\$2,883,304</u>	<u>14.05%</u> <u>\$2,805,421</u>	<u>13.28%</u> <u>\$2,390,876</u>	<u>10.33%</u> <u>\$1,697,130</u>	<u>12.80%</u> <u>\$1,762,797</u>	<u>12.87%</u> <u>\$1,669,858</u>
Total Requirements	34.64% \$7,469,238	31.85% \$6,242,911	30.00% \$5,990,222	28.96% \$5,213,839	25.16% \$4,133,570	27.24% \$3,751,451	27.59% \$3,579,750
Employee Contributions	8.50% \$1,832,809	7.00% \$1,372,068	7.00% \$1,397,719	7.00% \$1,260,251	7.00% \$1,150,039	7.00% \$964,029	7.00% \$908,237
Employer Contributions	12.00% \$2,587,496	12.00% \$2,352,117	12.00% \$2,396,089	12.00% \$2,160,430	12.00% \$1,971,496	12.00% \$1,652,622	12.00% \$1,556,977
Employer Add'l Cont.	9.00% \$1,940,622	9.00% \$1,764,088	9.00% \$1,797,067	9.00% \$1,620,323	9.00% \$1,478,622	9.00% \$1,239,466	9.00% \$1,167,733
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00%</u> <u>\$0</u>						
Total Contributions	29.50% \$6,360,927	28.00% \$5,488,273	28.00% \$5,590,874	28.00% \$5,041,004	28.00% \$4,600,158	28.00% \$3,856,117	28.00% \$3,632,946
Total Requirements	34.64% \$7,469,238	31.85% \$6,242,911	30.00% \$5,990,222	28.96% \$5,213,839	25.16% \$4,133,570	27.24% \$3,751,451	27.59% \$3,579,750
Total Contributions	<u>29.50%</u> <u>\$6,360,927</u>	<u>28.00%</u> <u>\$5,488,273</u>	<u>28.00%</u> <u>\$5,590,874</u>	<u>28.00%</u> <u>\$5,041,004</u>	<u>28.00%</u> <u>\$4,600,158</u>	<u>28.00%</u> <u>\$3,856,117</u>	<u>28.00%</u> <u>\$3,632,946</u>
Sufficiency/(Deficiency)	(5.14%) (\$1,108,311)	(3.85%) (\$754,638)	(2.00%) (\$399,348)	(0.96%) (\$172,834)	2.84% \$466,587	0.76% \$104,666	0.41% \$53,197
Amortization Target Date	2009	2009	2009	2009	2009	1997	1997
Actuary	Touche Ross	Touche Ross	Touche Ross	Wyatt	Wyatt	TPF&C	Stennes

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1976	1975	1974	1973	1972	1971	1970							
Membership														
Active Members	--	--	--	--	--	--	--							
Service Retirees	--	--	--	--	--	--	--							
Disabilitants	--	--	--	--	--	--	--							
Survivors	--	--	--	--	--	--	--							
Deferred Retirees	--	--	--	--	--	--	--							
Nonvested Former Members	--	--	--	--	--	--	--							
Total Membership	--	--	--	--	--	--	--							
Funded Status														
Accrued Liability	\$47,221,956	\$43,346,873	\$40,779,112	\$32,706,692	\$23,540,541	\$21,399,349	\$21,119,778							
Current Assets	<u>\$25,911,233</u>	<u>\$22,910,417</u>	<u>\$19,650,535</u>	<u>\$16,132,905</u>	<u>\$13,121,325</u>	<u>\$10,993,892</u>	<u>\$9,098,829</u>							
Unfunded Accrued Liability	\$21,310,723	\$20,436,456	\$21,128,577	\$16,573,787	\$10,419,216	\$10,405,457	\$12,020,949							
Funding Ratio	54.87%	52.85%	48.19%	49.33%	55.74%	51.37%	43.08%							
Financing Requirements														
Covered Payroll	\$11,996,584	\$11,214,526	\$11,051,726	\$9,036,012	\$7,621,027	\$7,311,243	\$6,550,665							
Benefits Payable	\$902,246	\$806,633	\$746,442	\$538,857	\$465,195	\$425,246	\$389,420							
Normal Cost	14.42%	\$1,729,907	14.82%	\$1,661,993	14.68%	\$1,622,393	14.34%	\$1,295,764	13.65%	\$1,040,270	13.28%	\$970,933	13.69%	\$896,786
Administrative Expenses	0.26%	\$31,191	0.27%	\$30,279	0.28%	\$30,945	0.18%	\$16,265	0.14%	\$10,669	0.09%	\$6,580	0.09%	\$5,896
Amortiz. of Unfunded Liab.^	<u>13.20%</u>	<u>\$1,583,549</u>	<u>13.18%</u>	<u>\$1,478,075</u>	<u>13.50%</u>	<u>\$1,491,983</u>	<u>12.66%</u>	<u>\$1,143,959</u>	<u>8.01%</u>	<u>\$610,444</u>	<u>8.14%</u>	<u>\$595,135</u>	<u>10.26%</u>	<u>\$672,098</u>
Total Requirements	27.88%	\$3,344,648	28.27%	\$3,170,347	28.46%	\$3,145,321	27.18%	\$2,455,988	21.80%	\$1,661,384	21.51%	\$1,572,648	24.04%	\$1,574,780
Employee Contributions	8.00%	\$959,727	8.00%	\$897,162	8.00%	\$884,138	8.00%	\$722,881	7.00%	\$533,472	7.00%	\$511,787	7.00%	\$458,547
Employer Contributions	12.00%	\$1,439,590	12.00%	\$1,345,743	12.00%	\$1,326,207	12.00%	\$1,084,321	11.20%	\$853,555	11.20%	\$818,859	11.20%	\$733,674
Employer Add'l Cont.	10.00%	\$1,199,658	10.00%	\$1,121,453	10.00%	\$1,105,173	10.00%	\$903,601	8.00%	\$609,682	8.00%	\$584,899	8.00%	\$524,053
Direct State Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Other Govt. Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Administrative Assessment	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>
Total Contributions	30.00%	\$3,598,975	30.00%	\$3,364,358	30.00%	\$3,315,518	30.00%	\$2,710,804	26.20%	\$1,996,709	26.20%	\$1,915,546	26.20%	\$1,716,274
Total Requirements	27.88%	\$3,344,648	28.27%	\$3,170,347	28.46%	\$3,145,321	27.18%	\$2,455,988	21.80%	\$1,661,384	21.51%	\$1,572,648	24.04%	\$1,574,780
Total Contributions	<u>30.00%</u>	<u>\$3,598,975</u>	<u>30.00%</u>	<u>\$3,364,358</u>	<u>30.00%</u>	<u>\$3,315,518</u>	<u>30.00%</u>	<u>\$2,710,804</u>	<u>26.20%</u>	<u>\$1,996,709</u>	<u>26.20%</u>	<u>\$1,915,546</u>	<u>26.20%</u>	<u>\$1,716,274</u>
Sufficiency/(Deficiency)	2.12%	\$254,328	1.73%	\$194,011	1.54%	\$170,197	2.82%	\$254,816	4.40%	\$335,325	4.69%	\$342,897	2.16%	\$141,494
Amortization Target Date	1997	1997	1997	1997	1997	1997	1997							
Actuary	Stennes	Stennes	Stennes	Stennes	Stennes	Stennes	Stennes							

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1969	1968	1967	1966	1965	1964	1962	1958								
Membership																
Active Members	--	--	--	--	--	--	--	--								
Service Retirees	--	--	--	--	--	--	--	--								
Disabilitants	--	--	--	--	--	--	--	--								
Survivors	--	--	--	--	--	--	--	--								
Deferred Retirees	--	--	--	--	--	--	--	--								
Nonvested Former Members	--	--	--	--	--	--	--	--								
Total Membership	--	--	--	--	--	--	--	--								
Funded Status																
Accrued Liability	\$17,681,000	\$8,843,554	\$8,602,640	\$7,874,492	\$7,495,514	\$6,870,000	\$5,364,851	\$4,014,041								
Current Assets	<u>\$7,503,000</u>	<u>\$4,927,531</u>	<u>\$4,306,145</u>	<u>\$3,730,465</u>	<u>\$3,137,045</u>	<u>\$2,718,000</u>	<u>\$2,293,786</u>	<u>\$1,226,695</u>								
Unfunded Accrued Liability	\$10,178,000	\$3,916,023	\$4,296,495	\$4,144,027	\$4,358,469	\$4,152,000	\$3,071,065	\$2,787,346								
Funding Ratio	42.40%	55.73%	50.06%	47.37%	41.85%	40.00%	42.76%	30.56%								
Financing Requirements																
Covered Payroll	\$5,261,000	\$2,376,554	\$2,299,800	\$2,258,028	\$2,240,000	\$1,814,000	\$1,708,800	\$1,582,320								
Benefits Payable	\$364,000	\$215,858	\$198,872	\$152,000	\$144,882	\$126,000	\$108,660	\$47,112								
Normal Cost	14.35%	\$754,954	16.76%	\$398,310	17.08%	\$392,806	17.13%	\$386,800	16.07%	\$359,968	19.50%	\$353,730	17.50%	\$299,040	17.30%	\$273,741
Administrative Expenses	0.21%	\$11,048	0.20%	\$4,753	0.18%	\$4,140		\$0		\$0		\$0		\$0		
Amortiz. of Unfunded Liab.^	<u>10.58%</u>	<u>\$556,614</u>	<u>8.34%</u>	<u>\$198,205</u>	<u>9.25%</u>	<u>\$212,732</u>	<u>8.74%</u>	<u>\$197,352</u>	<u>9.37%</u>	<u>\$209,888</u>	<u>10.80%</u>	<u>\$195,912</u>	<u>3.52%</u>	<u>\$60,150</u>	<u>7.60%</u>	<u>\$120,256</u>
Total Requirements	25.14%	\$1,322,615	25.30%	\$601,268	26.51%	\$609,677	25.87%	\$584,152	25.44%	\$569,856	30.30%	\$549,642	21.02%	\$359,190	24.90%	\$393,998
Employee Contributions	7.00%	\$368,270	7.00%	\$166,359	7.00%	\$160,986	7.40%	\$167,094	7.40%	\$165,760	7.00%	\$126,980	7.00%	\$119,616	7.00%	\$110,762
Employer Contributions	11.20%	\$589,232	11.20%	\$266,174	11.20%	\$257,578	11.20%	\$252,899	11.20%	\$250,880	10.50%	\$190,470	10.50%	\$179,424	7.00%	\$110,762
Employer Add'l Cont.	8.00%	\$420,880	9.00%	\$213,890	9.00%	\$206,982	9.00%	\$203,223	9.00%	\$201,600	0.00%	\$0	0.00%	\$0	0.00%	\$0
Direct State Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Other Govt. Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0
Administrative Assessment	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>
Total Contributions	26.20%	\$1,378,382	27.20%	\$646,423	27.20%	\$625,546	27.60%	\$623,216	27.60%	\$618,240	17.50%	\$317,450	17.50%	\$299,040	14.00%	\$221,525
Total Requirements	25.14%	\$1,322,615	25.30%	\$601,268	26.51%	\$609,677	25.87%	\$584,152	25.44%	\$569,856	30.30%	\$549,642	21.02%	\$359,190	24.90%	\$393,998
Total Contributions	<u>26.20%</u>	<u>\$1,378,382</u>	<u>27.20%</u>	<u>\$646,423</u>	<u>27.20%</u>	<u>\$625,546</u>	<u>27.60%</u>	<u>\$623,216</u>	<u>27.60%</u>	<u>\$618,240</u>	<u>17.50%</u>	<u>\$317,450</u>	<u>17.50%</u>	<u>\$299,040</u>	<u>14.00%</u>	<u>\$221,525</u>
Sufficiency/(Deficiency)	1.06%	\$55,767	1.90%	\$45,155	0.69%	\$15,869	1.73%	\$39,064	2.16%	\$48,384	(12.80%)	(\$232,192)	(3.52%)	(\$60,150)	(10.90%)	(\$172,473)
Amortization Target Date	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997
Actuary	Stennes	Stennes	Brown, Conrad	Brown, Conrad	Brown, Conrad	Brown, Conrad	Stennes	Stennes	Stennes							

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1955	1952
<u>Membership</u>		
Active Members	--	--
Service Retirees	--	--
Disabilitants	--	--
Survivors	--	--
Deferred Retirees	--	--
Nonvested Former Members	--	--
Total Membership	--	--
<u>Funded Status</u>		
Accrued Liability	\$2,690,593	\$926,823
Current Assets	<u>\$890,397</u>	<u>\$565,210</u>
Unfunded Accrued Liability	\$1,800,196	\$361,613
Funding Ratio	33.09%	60.98%
<u>Financing Requirements</u>		
Covered Payroll	--	--
Benefits Payable	--	--
Normal Cost	--	--
Administrative Expenses	--	--
Amortiz. of Unfunded Liab.^	--	--
Total Requirements	--	--
Employee Contributions	8.00%	--
Employer Contributions	8.00%	--
Employer Add'l Cont.	0.00%	--
Direct State Funding	0.00%	--
Other Govt. Funding	0.00%	--
Administrative Assessment	<u>0.00%</u>	--
Total Contributions	16.00%	--
Total Requirements	--	--
Total Contributions	--	--
Sufficiency/(Deficiency)	--	--
Amortization Target Date	--	--
Actuary	Stennes	--

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.